

# **DELAWARE MATERIAL SPECIFICATION**

## **CONCRETE PIPE MS 206**

### **1. SCOPE**

This specification covers the quality of non-reinforced and reinforced concrete pipe.

### **2. NON-REINFORCED PIPE**

The applicable American Society for Testing and Materials, ASTM Specifications applicable for the concrete are:

- a. **Irrigation pipe.** The pipe shall conform to the requirements of ASTM C-505.
- b. **Irrigation or drainage pipe.** The pipe shall conform to the requirements of ASTM C-118.
- c. **Drain tile.** The pipe shall conform to the requirements of ASTM C-118.
- d. **Perforated pipe.** The pipe shall conform to the requirements of ASTM C-444.
- e. **Culvert pipe.** The pipe shall conform to the requirements of ASTM C-14 for the class of pipe specified.

### **3. REINFORCED PIPE**

- a. **Round pipe.** Round reinforced concrete culvert pipe shall conform to the requirements of ASTM Specifications C-76, C-655 or C-361 for the class of pipe specified.
- b. **Arch pipe.** Reinforced concrete arch culvert pipe shall conform to the requirements of ASTM Specification C-506 for the class of pipe specified.

- c. **Elliptical pipe.** Reinforced concrete elliptical culvert pipe shall conform to the requirements of ASTM Specification C-507 for the class of pipe specified.

4. **RUBBER GASKET JOINTS**

When rubber gasket joints are specified, the joints and gaskets shall conform to the requirements of ASTM Specification C-443.